

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		ATTORNEY/AGENT NO. 490051.401USPC
		U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/526,324
INTERNATIONAL APPLICATION NO. PCT/IB2003/003597	INTERNATIONAL FILING DATE 29 August 2003	PRIORITY DATE CLAIMED 30 August 2002
TITLE OF INVENTION METHOD OF TARGETED GENE DISRUPTION, GENOME OF HYPERTHERMOSTABLE BACTERIUM AND GENOME CHIP USING THE SAME		
APPLICANT(S) FOR DO/EO/US IMANAKA, Tadayuki; ATOMI, Haruyuki		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<ol style="list-style-type: none"> 1. <input type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 2. <input checked="" type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input type="checkbox"/> The US has been elected (Article 31). 5. <input type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)). <ol style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ol style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ol style="list-style-type: none"> a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). 		
Items 11 to 20 below concern document(s) or information included:		
<ol style="list-style-type: none"> 11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input checked="" type="checkbox"/> A preliminary amendment. 14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76 15. <input type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A power of attorney and/or change of address letter. 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825. 18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 20. <input checked="" type="checkbox"/> Other items or information: Petition for Extension of Time; Copy of Notification of Missing Requirements 		

U.S. APPLICATION NO. (If known, see 37 CFR 1.55) 10/526,324		INTERNATIONAL APPLICATION NO. PCT/IB2003/003597		ATTORNEY'S DOCKET NUMBER 490051.401USPC	
The following fees are submitted					
21. <input type="checkbox"/> Basic national fee (37 CFR 1.492(a)).....				\$300.00	\$.00
22. <input type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4).....				\$ 0.00	\$.00
All other situations				\$200.00	\$.00
23. <input type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by the IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4).....				\$ 0.00	
Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority				\$100.00	
International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB				\$400.00	
All other situations				\$500.00	\$.00
TOTAL OF 21, 22 AND 23 =					\$.00
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)		RATE	
- 100 =	/50 =			X \$250.00	\$.00
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).					\$.00
Claims	Number Filed	Number Extra	Rate		
Total Claims	12 - 20 =	0	x \$ 50.00		\$.00
Independent Claims	2 - 3 =	0	x \$ 200.00		\$.00
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360.00		\$.00
TOTAL OF ABOVE CALCULATIONS =					\$.00
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.					\$.00
SUBTOTAL =					\$.00
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).				+	\$.00
TOTAL NATIONAL FEE =					\$.00
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				+	\$.00
Fee for extension of time to respond to Notification of Missing Requirements (37 CFR 1.136(a)). A Petition for Extension of Time is included.				+	\$450.00
TOTAL FEES ENCLOSED =					\$450.00
04/24/2006 LLANDGRA 00000030 10526324				Amount to be refunded:	
01 FC:1252 450.00 OP				Amount to be Charged:	

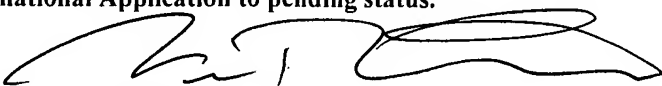
U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/526,324	INTERNATIONAL APPLICATION NO. PCT/IB03/03597	ATTORNEY'S DOCKET NUMBER 490051.401USPC
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a. ☒ A check in the amount of **\$450** to cover the above fees is enclosed.
 b. ☐ Please charge my Deposit Account No. **19-1090** in the amount of \$_____ to cover the above fees. A duplicate copy of this sheet is enclosed.
 c. ☒ The Commissioner is hereby authorized to charge **any deficiency in the basic national fee** which may be required, or credit any overpayment to Deposit Account No. **19-1090**. A duplicate copy of this sheet is enclosed.
 d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

William T. Christiansen, Ph.D.
 Seed Intellectual Property Law Group PLLC
 701 5th Avenue, Suite 6300
 Seattle, WA 98104-7092
 United States of America
 (206) 622-4900



 SIGNATURE

William T. Christiansen, Ph.D.
 NAME

44,614
 REGISTRATION NUMBER

772706_1.DOC

(07/05)

EXPRESS MAIL NO. EV741775631US *WTC*

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office
 Address: COMMISSIONER FOR PATENTS
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
 www.uspto.gov

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/526,324	Tadayuki IMANAKA	490051.401USPC

INTERNATIONAL APPLICATION NO.

PCT/IB03/03597

I.A. FILING DATE

PRIORITY DATE

08/29/2003

500
 SEED INTELLECTUAL PROPERTY LAW GROUP PLLC
 701 FIFTH AVE
 SUITE 6300
 SEATTLE, WA 98104-7092

RECEIVED

DEC 23 2005

SEED INTELLECTUAL PROPERTY
LAW GROUP PLLC

Date Mailed: 12/19/2005

CONFIRMATION NO. 4748

371 FORMALITIES LETTER



OC000000017674681

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 02/28/2005
- English Translation of the IA filed on 02/28/2005
- Copy of the International Search Report filed on 02/28/2005
- Copy of IPE Report filed on 02/28/2005
- Preliminary Amendments filed on 02/28/2005
- Information Disclosure Statements filed on 02/28/2005
- Biochemical Sequence Diskette filed on 02/28/2005
- Biochemical Sequence Listing filed on 02/28/2005
- U.S. Basic National Fees filed on 02/28/2005
- Priority Documents filed on 02/28/2005
- Specification filed on 02/28/2005
- Claims filed on 02/28/2005
- Abstracts filed on 02/28/2005
- Drawings filed on 02/28/2005

Missing Parts
Feb. 19, 2006

ENTERED IN DOCKET *for*

The applicant needs to satisfy supplemental fees problems indicated below.

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Additional claim fees of \$4600 as a non-small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due.
- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application

by the International application number and international filing date.

SUMMARY OF FEES DUE:

Total additional fees required for this application is **\$4600** for a Large Entity:

- Total additional claim fee(s) for this application is \$ **4600**
 - **\$2800** for **14** independent claims over 3.
 - **\$1800** for **36** total claims over 20.

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

FRANCINE YOUNG

Telephone: (703) 308-9140 EXT 215

PART 1 - ATTORNEY/APPLICANT COPY

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10/526,324	PCT/IB03/03597	490051.401USPC